

AMENDMENTS TO THE CLAIMS

The listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

1-38 Canceled.

39. (New) A composition comprising a desulfurization component having molecular sieves with a skeleton wherein vanadium is incorporated into the molecular sieve skeleton and the composition removes sulfur.

40. (New) The composition according to claim 39 further comprising a supporter, binder, and active component.

41. (New) The composition according to claim 39, wherein the desulfurization component is present in 1 to 20 weight percent.

42. (New) The composition according to claim 40, wherein the ratio of active component to desulfurization component is 1 to 50 by weight.

43. (New) The composition according to claim 39, wherein the molecular sieves is at least one of VS-n, VAPO-n, or VSAPO-n, wherein n is an integer.

44. (New) The composition according to claim 43, wherein the VS-n has silicon and vanadium and the molar ratio of Si to V is 1 to 30.

45. (New) The composition according to claim 43, wherein the VAPO-n has aluminum and vanadium and the molar ratio of Al to V is 1 to 30.

46. (New) The composition according to claim 40, wherein the active component is a large pore size zeolite or an intermediate pore size zeolite.

47. (New) The composition according to claim 40, wherein the active component is zeolite Y, ZSM-5, or both.
48. (New) The composition according to claim 47, wherein the zeolite Y is USY or REUSY, or is modified by metal oxides.
49. (New) The composition according to claim 40, wherein ZSM-5 is modified by a rare earth or by a rare earth and phosphorus.
50. (New) The composition according to claim 40, wherein the supporter is clay.
51. (New) The composition according to claim 40, wherein the binder is at least one of silica sol, alumina sol, or pseudoboehmite.
52. (New) A fluid cracking catalyst comprising a desulfurization component having molecular sieves with a skeleton wherein vanadium is incorporated into the molecular sieve skeleton and the composition removes sulfur.
53. (New) The fluid cracking catalyst according to claim 52 further comprising a supporter, binder, and active component.
54. (New) The fluid cracking catalyst according to claim 52, wherein the desulfurization component is present in 1 to 20 weight percent.
55. (New) The fluid cracking catalyst according to claim 53, wherein the ratio of active component to desulfurization component is 1 to 50 by weight.
56. (New) The fluid cracking catalyst according to claim 52, wherein the molecular sieves is at least one of VS-n, VAPO-n, or VSAPO-n, wherein n is an integer.

57. (New) The fluid cracking catalyst according to claim 56, wherein the VS-n has silicon and vanadium and the molar ratio of Si to V is 1 to 30.

58. (New) The fluid cracking catalyst according to claim 56, wherein the VAPO-n has aluminum and vanadium and the molar ratio of Al to V is 1 to 30.

59. (New) The fluid cracking catalyst according to claim 53, wherein the active component is a large pore size zeolite or an intermediate pore size zeolite.

60. (New) The fluid cracking catalyst according to claim 53, wherein the active component is zeolite Y, ZSM-5, or both.

61. (New) The fluid cracking catalyst according to claim 60, wherein the zeolite Y is USY or REUSY, or is modified by metal oxides.

62. (New) The fluid cracking catalyst according to claim 60, wherein ZSM-5 is modified by a rare earth or by a rare earth and phosphorus.

63. (New) The fluid cracking catalyst according to claim 53, wherein the supporter is clay.

64. (New) The fluid cracking catalyst according to claim 53, wherein the binder is at least one of silica sol, alumina sol, or pseudoboehmite.

65. (New) A process for reducing the sulfur content in a compound conducted in the presence of the composition of claim 39.

66. (New) A catalytic cracking method conducted in the presence of the fluid cracking catalyst of claim 52.